

What is claimed is:

1. A fluid control servo-solenoid valve with self-contained actuating fluid, in particular, for sanitary installations, wherein the fluid control servo-solenoid valve with self-contained actuating fluid includes  
5 a valve housing having therein a valve inlet and a valve outlet isolatable from one another in a sealed manner via the seating of a valve flange in a valve closing position on a valve seat, whereby the valve inlet and the valve outlet are located on two opposed sides of the valve housing, a displaceable differential piston, disposed in the valve housing, that supports thereon the valve flange, wherein, on one side of the differential piston, there is a pressure volume communicated with the valve inlet with the pressure volume being selectively communicable via the valve seat with the valve outlet while, on the other side of the differential piston, there is a control volume that is selectively communicable with the valve outlet via a relief bore that is  
10 closable by means of a closure element associated with the plunger of an electro-magnetic pilot valve, with the control volume being communicated via a control channel with the pressure volume and the pressure volume being sealed off relative to the control volume via a seal along the edge regions of the differential piston, wherein the servo-solenoid valve further comprises:  
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- a) the housing being configured as a small, elongate body having a pair of lengthwise sides and a pair of  
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widthwise sides each relatively shorter than either of  
the lengthwise sides, whereby the valve inlet and the  
valve outlet are each disposed on a respective one of  
the widthwise outer sides of the housing and the  
inlet/outlet flow direction E-A extends parallel to the  
housing longitudinal axis L;

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- b) the differential piston being disposed in the housing 1-  
such that its movement is perpendicular to the  
housing longitudinal axis L;
  - 10 c) the pilot valve being dismountably secured on the  
respective widthwise outer side of the housing on  
which the valve outlet is located; and
  - d) the relief bore being configured as a pilot valve seat,  
closable by a closure element, and located between  
the valve chamber of the pilot valve and an outflow  
channel communicated with the valve outlet, whereby  
the valve chamber is communicated via a discharge  
channel with the control volume.
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2. A fluid control servo-solenoid valve according to claim 1,

20 wherein the housing is configured as a two-piece component having a  
base body supporting the valve inlet and the valve outlet, and including  
on one side an opening that provides access into the housing, the  
opening being covered by a housing cover extending in the direction of

the housing longitudinal axis L over a portion of the longitudinal extent of the housing.

3. A fluid control servo-solenoid valve according to claim 2, wherein the differential piston as well as a hood covering the control volume are each components of a unitary component deployable into the housing interior via the opening in the housing.

4. A fluid control servo-solenoid valve according to claim 1, wherein the housing is configured as a cylinder with substantially planar, small widthwise end surfaces on its outer side.

5. A fluid control servo-solenoid valve according to claim 1, wherein at least one of the valve inlet and the valve outlet is provided with a respective pipe or hose communication element.

6. A fluid control servo-solenoid valve according to claim 1, wherein the respective one of the widthwise sides of the valve on which the valve inlet is located includes a threaded support through which the valve inlet extends, the threaded support serving for threaded securing of the valve in a valve receipt location.

7. A fluid control servo-solenoid valve with self-contained actuating fluid, in particular, for sanitary installations, wherein the fluid control servo-solenoid valve with self-contained actuating fluid includes a valve housing having therein a valve inlet and a valve outlet isolatable from one another in a sealed manner via the seating of a valve flange in a valve closing position on a valve seat, whereby the

valve inlet and the valve outlet are located on two opposed sides of the valve housing, a displaceable differential piston, disposed in the valve housing, that supports thereon the valve flange, wherein, on one side of the differential piston, there is a pressure volume communicated with the valve inlet with the pressure volume being selectively communicable via the valve seat with the valve outlet while, on the other side of the differential piston, there is a control volume that is selectively communicable with the valve outlet via a relief bore that is closable by means of a closure element associated with the plunger of an electro-magnetic pilot valve, with the control volume being communicated via a control channel with the pressure volume and the pressure volume being sealed off relative to the control volume via a seal along the edge regions of the differential piston, wherein the servo-solenoid valve further comprises:

- 15           a)     the housing having a housing longitudinal axis L and being configured with the valve inlet and the valve outlet disposed on respective opposite sides such that the inlet/outlet flow direction E-A extends parallel to the housing longitudinal axis L;
- 20           b)     the differential piston being disposed in the housing such that its movement is not parallel to the housing longitudinal axis L;
- c)     the pilot valve being secured on the respective outer

side of the housing on which the valve outlet is located; and

- 5           d) the relief bore being configured as a pilot valve seat, closable by a closure element, and located between the valve chamber of the pilot valve and an outflow channel communicated with the valve outlet, whereby the valve chamber is communicated via a discharge channel with the control volume.

10           8. A fluid control servo-solenoid valve according to claim 7, wherein the housing is configured as a small, elongate body having a pair of lengthwise sides and a pair of widthwise sides each relatively shorter than either of the lengthwise sides, whereby the valve inlet and the valve outlet are each disposed on a respective one of the widthwise outer sides of the housing.

15           9. A fluid control servo-solenoid valve according to claim 7, wherein the differential piston is disposed in the housing such that its movement is perpendicular to the housing longitudinal axis L.

20           10. A fluid control servo-solenoid valve according to claim 7, wherein the pilot valve is dismountably secured on the respective widthwise outer side of the housing on which the valve outlet is located.